Reviewer's report

Title: The role of RhoC in epithelial-to-mesenchymal transition of ovarian carcinoma cells

Version: 3
Date: 24 January 2014

Reviewer: Hemant Kocher

Reviewer's report:

Major Compulsory Revisions

Figure 1E: Quantify spherical / elongated cells: standard commercially available software for automated unbiased counting, rather than 'representative images'

Figure 1F: Should be supplemented with Western Blot. Some data in Figure 3A, see comments there.

Figure 2A: Provide data, at the very least with relevant maximal dose of growth factor and inhibitor after RhoC siRNA, mock siRNA, RhoC vector transfection and mock vector transfection Figure 2B: same comment as in Figure 1E.

Figure 2C,D: statistical comparison of which group have been made. Asterisk suggests only comparison without inhibitor or without growth factor. Mock siRNA and Mock vector are missing. Is there a rescue with inhibitor or growth factor? If not, as it appears to be, what is their role then?

Figure 2E: Needs quantification as in 1E. There appear to be more lamellipodia in OVCAR3 RhoC siRNA after VEGF and TGFb stimulation. Why?

Figure 3A: As in 2C,D

Figure 3B: Western blot is poor quality. Double bands, narrow bandwidth below and above. Quantification not done.

Figure 3C: some data do not match with Western Blot. May be better to quantitate.

- Minor Essential Revisions

The figures are wrongly cited in 'Results' section. Figure 3D,E,F do not exist. Figure 2b and 2c are confused. Recent work on RhoC in motility is not discussed.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.
Declaration of competing interests:

'I declare that I have no competing interests